(12) UK Patent Application (19) GB (11) 2 345 707 (13) A

(43) Date of A Publication 19.07.2000

(21) Application No 9928653.6

(22) Date of Filing 04.12.1999

(30) Priority Data

(31) 09205968

(32) 04.12.1998

(33) US

(71) Applicant(s)

Baker Hughes Incorporated (Incorporated in USA - Delaware) 3900 Essex Lane, Houston, Texas 77027, United States of America

(72) Inventor(s)

Michael Doster

(74) Agent and/or Address for Service

Marks & Clerk

Sussex House, 83-85 Mosley Street, MANCHESTER,

M2 3LG, United Kingdom

(51) INT CL7

E21B 10/16 10/52 10/56

(52) UK CL (Edition R)

E1F FGA

(56) Documents Cited

GB 2031047 A EP 0802301 A2

US 5752573 A

US 4334586 A

US 3388757 A

(58) Field of Search

UK CL (Edition R) E1F FFD FGA FGB FGC

INT CL7 E21B

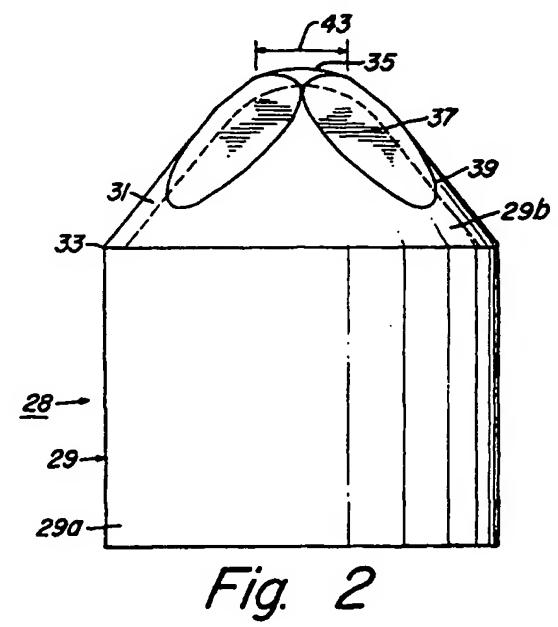
US 4716977 A

Online: WPI EPODOC JAPIO

(54) Abstract Title

Diamond capped cutting element with flats

(57) The cutting element (28) for an earth-boring drill bit comprises a tungsten carbide cylindrical base (29a) and a cutting end (29b). A diamond cap (31) is bonded to the cutting end (29b) and has a plurality of flats (37) formed in its conical sidewall about an apex (35). The flats (37) are identical to each other and have oval perimeters (39). Portions of the perimeters (39) are contiguous with adjacent flats to create sharp cutting edges.



At least one drawing originally filed was informal and the print reproduced here is taken from a later filed formal copy.